Commonality 104	106 Modularity	108 Standards Based	110 RMT 110
• Physical Commonality (Within the system)	• Physical Modularity 77 118	• Open Systems Orientation	Reliability 7. 132
• HW Commonality	· Ease of system element upgrade	· Interface Standards	· Fault Tolerance
I I Z	<ul> <li>Lines of modified code</li> </ul>	<ul> <li># of Interface Standards/# of</li> </ul>	% of mission critical functions with single
Number of Unique Fasteners	• Amount of labour hours for system rework	Interfaces	points of failure
• Number of Unique Caples	<ul> <li>Ease of operating system upgrade</li> </ul>	<ul> <li>Multiple Vendors (Greater than 5)</li> </ul>	% of safety critical functions with single
Number of Unique Standards Implemented	<ul> <li>Lines of modified code</li> </ul>	Exist for Products Based on	points of failure
• SW Commonality	<ul> <li>Amount of labour hours for system rework</li> </ul>	Standards	Critical Points of Delicateness (System
Number of Unique SW Packages	• Functional Modularity 720	<ul> <li>Multiple Business Domains</li> </ul>	Loading)
Implemented	· Ease of adding new functionality	Apply/Use Standard (Aerospace,	• % Processor Loading
• Number of Languages	<ul> <li>Lines of modified code</li> </ul>	Medical, Telecommunications)	* Memory Loading
Number of Compilers	<ul> <li>Amount of labour hours for system rework</li> </ul>	Standard Maturity	How critical is this?
<ul> <li>Average Number of SW Instantiations</li> </ul>	<ul> <li>Ease of upgrade existing functionality</li> </ul>	Hardware Standards	Network Loading
Number of Unique Standards Implemented	Lines of modified code	# of Form Factors/# of LRUs	How critical is this?
• Physical Familiarity (From other systems)	<ul> <li>Amount of labour hours for system rework</li> </ul>	<ul> <li>Multiple Vendors (Greater than 5)</li> </ul>	· Maintainability / 134
. % Vendors Known	· Orthogonality 7 122	Exist for Products Based on	Expected MTTR
• % Subcontractors Known	<ul> <li>Are functional requirements fragmented</li> </ul>	Standards	Maximum Fault Group Size
• % HW lechnology Known	across multiple processing elements and	<ul> <li>Multiple Business Domains</li> </ul>	Is system operational during maintenance?
% SVV lechnology Known	Interfaces?	Apply/Use Standard (Aerospace,	Accessibility
• Operational Commonality	<ul> <li>Are there throughput requirements across</li> </ul>	Medical, Telecommunications)	• Are there space restrictions?
116 Mumber of Harme Claim Colors Automated	interfaces?	Standard Maturity	<ul> <li>Are there special tool requirements?</li> </ul>
_	sbec	Software Standards	<ul> <li>Are there special skill requirements?</li> </ul>
• Estimated Operational Transmit Time - Initial	· Abstraction 724	<ul> <li># of proprietary &amp; unique operating</li> </ul>	· Testability 72 136
- estimated Operational Training Time -	<ul> <li>Does the system architecture provide and</li> </ul>	systems	<ul> <li># of LRUs covered by BIT (BIT Coverage)</li> </ul>
Keiresh Irom Previous System	option for information hiding?	<ul> <li># of non-std databases</li> </ul>	Reproducibility of Errors
• Estimated Maintenance Training Time -	· Interfaces 726	<ul> <li># of proprietary middle-ware</li> </ul>	<ul> <li>Logging/Recording Capability</li> </ul>
	<ul> <li># of Unique Interfaces per System Element</li> </ul>	•	<ul> <li>Create system state at time of system</li> </ul>
Estimated Maintenance Training Time -	# of Different Networking Protocols	• Consistency Orientation	failure?
Keiresh irom Previous System	<ul> <li>Explicit versus implicit interfaces</li> </ul>	Common Guidelines for	Online Testing
	Does the architecture involve implicit	Implementing Diagnostics and	<ul> <li>Is system operational during external</li> </ul>
	Interfaces/	PM/FL	testing?
	<ul> <li># of Cables in the System</li> </ul>	<ul> <li>Common Guidelines for</li> </ul>	<ul> <li>Ease of access to external testpoints?</li> </ul>
		Implementing OMI	<ul> <li>Automated Input/Stimulation Insertion</li> </ul>

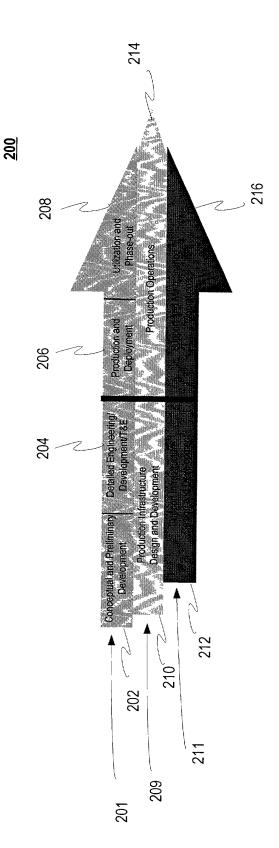
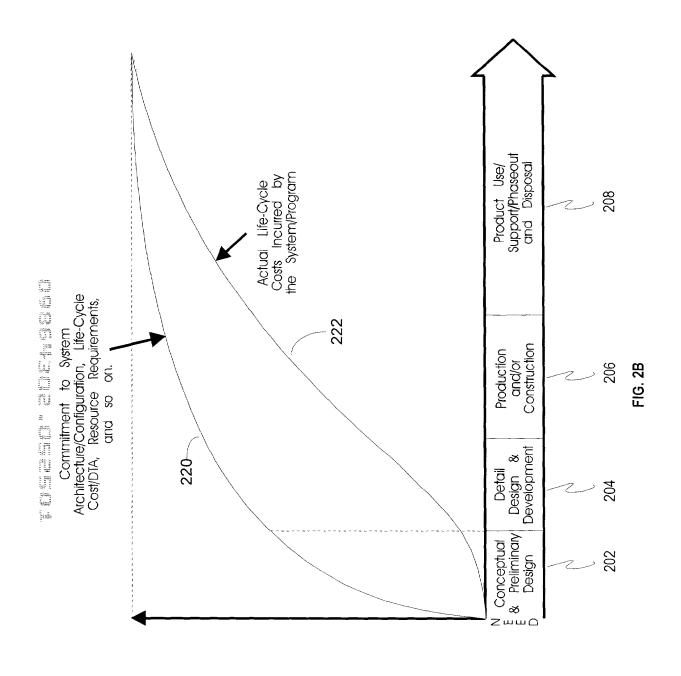


FIG. 2A



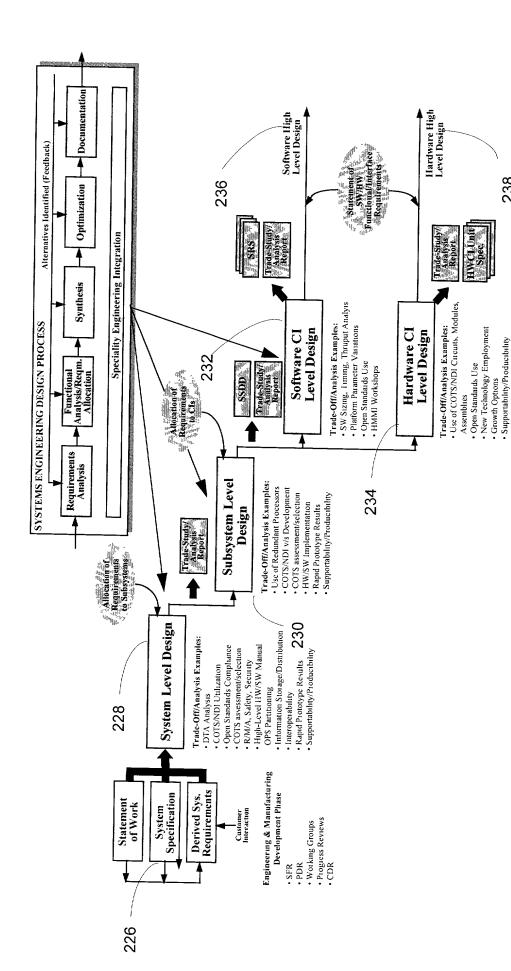


FIG. 2C

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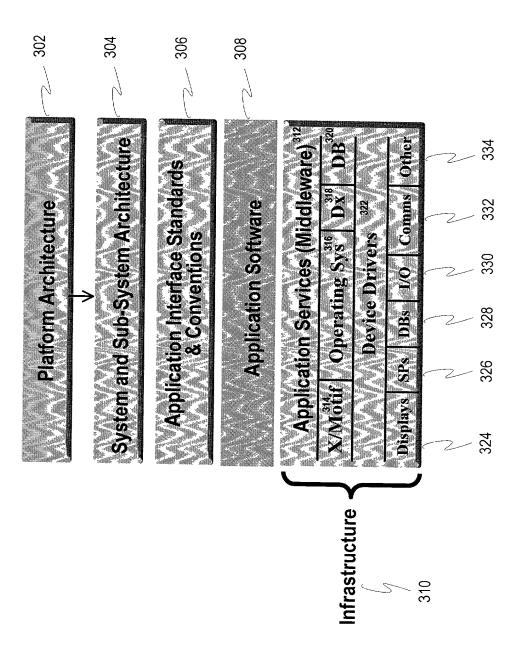


FIG. 3

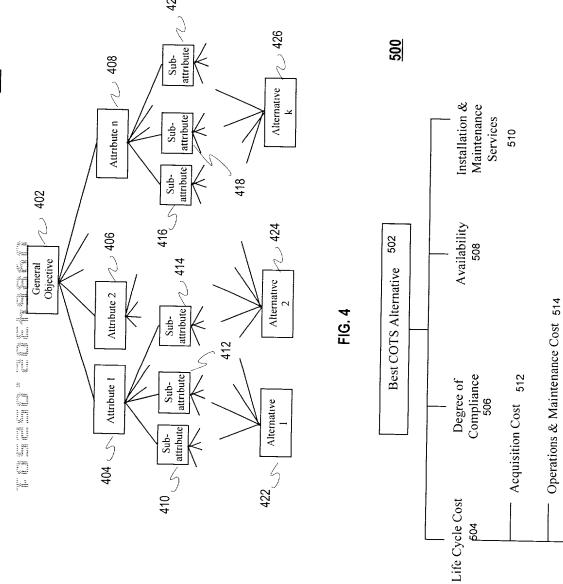


FIG. 5

Installation & Training Cost 516

Technical Support Cost 518

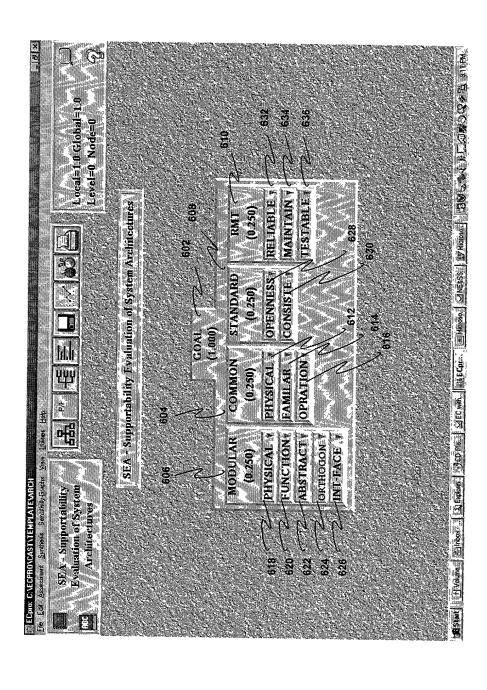


FIG. 6A

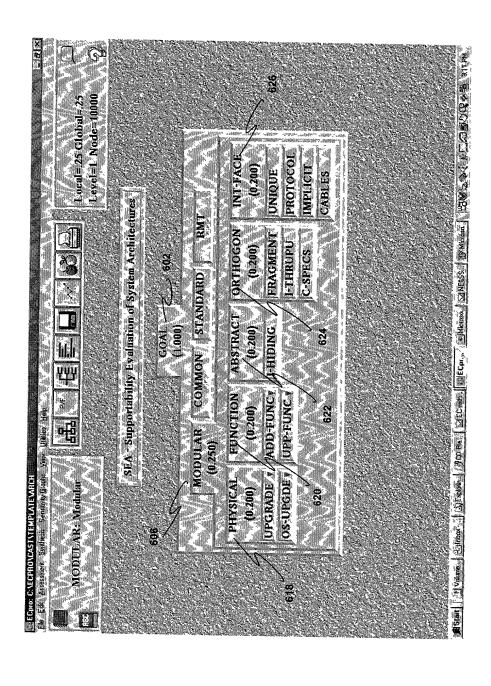


FIG. 6B

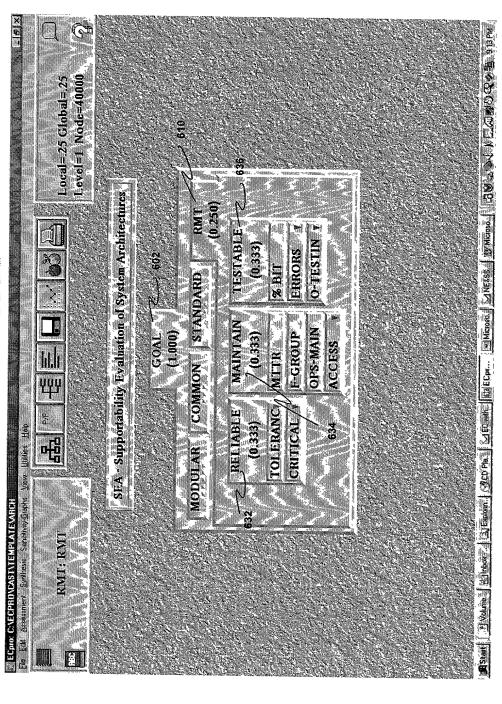


FIG. 6C

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